

Serial No. 10/644,129

PATENT

CLAIM AMENDMENTS

1 1. (Currently Amended) A stent graft prosthesis for placement in a vessel
2 comprising:
3 a graft portion including a first end, a second end, and a main body
4 portion, generally tubular in shape, that comprises a first layer of material;
5 a cuff portion, having a first edge and a second edge, the first edge
6 thereof located about the first end of the main body of the graft portion, the
7 cuff portion comprising a second layer of material closely adjacent the main
8 body portion wherein the second edge comprises one of a frayed portion
9 and a fringed portion; and
10 a supporting structure attached about the first end of the graft
11 portion and to the cuff portion.

1 2. (Original) The stent graft prosthesis of claim 1, wherein the cuff portion
2 is folded over the main body portion such that the proximal, first end of the
3 cuff portion comprises a folded edge and the second end comprises a free
4 edge.

1 3. (Original) The stent graft prosthesis of claim 2, wherein the cuff portion
2 is folded over the outside of the main body portion.

1 4. (Original) The stent graft prosthesis of claim 3, wherein the cuff portion
2 comprises a plurality of flaps extend over the first edge of the graft portion.

1 5. (Original) The stent graft prosthesis of claim 1, wherein the supporting
2 structure includes an anchoring stent attached to the cuff portion and main
3 body portion.

Serial No. 10/644,129

PATENT

1 6. (Original) The stent graft prosthesis of claim 1, wherein the cuff portion
2 comprises one or more elements separate of the main body portion that are
3 attached thereto.

1 7. (Original) The stent graft prosthesis of claim 6, wherein the cuff portion
2 comprises an external sealing zone extending laterally from the main body
3 portion, the external sealing zone configured to engage the walls of the
4 vessel to facilitate sealing therebetween and reduce leakage of fluid.

1 8. (Cancelled)

1 9. (Cancelled)

1 10. (Previously Presented) The stent graft prosthesis of claim 1, wherein
2 the cuff portion comprises a second material different than that of the main
3 body material

1 11. (Currently Amended) A stent graft prosthesis for placement in a vessel
2 comprising:
3 a graft portion including a main body portion generally tubular in
4 shape, that includes a first end and a second end;
5 a cuff portion comprising an external sealing zone generally located
6 at or closely adjacent the first end of the graft portion, the external sealing
7 zone having structure comprising a second layer of material that generally
8 encircles and extends laterally from the main body portion to create a
9 circumferential seal between graft portion and the adjacent walls of the
10 vessel to reduce leakage of bodily fluid thereabout; and
11 wherein the cuff portion comprises a band of material situated
12 therearound.

Serial No. 10/644,129

PATENT

- 1 12. (Original) The stent graft prosthesis of claim 11, wherein the cuff
2 portion comprises a frayed portion.
- 1 13. (Original) The stent graft prosthesis of claim 11, wherein the cuff
2 portion comprises a fringed portion.
- 1 14. (Cancelled)
- 1 15. (Currently Amended) The stent graft prosthesis of claim 11, wherein
2 the band of material comprises a second material, wherein the second
3 material is different than that of the main body of the graft portion.
- 1 16. (Currently Amended) A stent graft prosthesis for placement in a vessel
2 comprising:
3 a graft portion including a main body portion;
4 an outer cuff portion, having a first edge and a second edge, that is
5 located about the first end of the graft portion and attached thereto
6 wherein the outer cuff portion comprises a frayed portion; and
7 an anchoring stent attached to the main body portion and outer cuff
8 portion, the anchoring stent extending proximally therefrom.
- 1 17. (Original) The stent graft prosthesis of claim 16, wherein the outer cuff
2 portion comprises an external sealing zone.
- 1 18. (Cancelled)
- 1 19. (Original) The stent graft prosthesis of claim 16, wherein the outer cuff
2 portion is folded over the main body portion with the anchoring stent being
3 attached thereover.

Serial No. 10/644,129

PATENT

- 1 20. (Original) The stent graft prosthesis of claim 16, wherein the outer cuff
- 2 portion is folded over the main body portion with the anchoring stent being
- 3 attached between the outer cuff portion and the main body portion.